CY LIGHTING

1200W Moving Head
Strengthen(28CH) USER MANUAL

EAGLE-3000

This product manual contains important information about the safe installation and use of this luminaire. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

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Please note that as part of our ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.

Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and / or the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer and / or dealer.

ACCESSORIES

These items are packed together with the luminaire:

Omega clamps (2PCS)

XLR cable(5Pin with plug)(1PC)

Safety belt(1PC)

This manual(1PC)

INTRODUCTION

Thank you so much choosing our EAGLE series professional moving heads product: EAGLE 3000, 1200W Moving Head Spot Strengthen style.

EAGLE-3000, 1200W Moving Head Spot Strengthen style is our latest developed intelligentized、 high efficient product. This luminaire adopt ultra-quiet design, possess the international advanced electronic control technology. It complies with CE certificate and international standard DMX512 signal control.

This luminaire uses advanced optical system which can make it have super big zoom and linear dimmer in big scale; High quality lens enable project out ultra-clear, high efficient imaging and reach super spot effect; Especial selected Gobos and CMY linear mixing system can performance hight saturation and richness color; LCD display in English-Chinese language make more convenience operation; Two styles high quality hook and assemble underplate have more easy and fast lock features.

With kinds of metal and glass gobos, which can make versatile performance effect when combine with strobe, wash, color mixing, rainbow, prism and flowing effects, EAGLE 3000 becomes the TV station, big performance and professional lighting projects' first choice.

SECURE ALARM

When unpacking and before disposing of the carton check there is no transportation damage before using the luminaire.

Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The luminaire is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture,excessive heat, humidity and dust. Do not allow contact with water or any other liquids.

The luminaire is not designed or intended to be mounted directly on to inflammable surfaces.

The luminaire is only intended for installation, operation and maintenance by qualified personnel.

The luminaire must be installed in a location with adequate ventilation, at least 50cm from adjacent wall surfaces. Be sure that no ventilation slots are blocked.

Do not project the beam onto inflammable surfaces, minimum distance is 5m.

Avoid direct exposure to the light from the lamp. The light is harmful to the eye.

Do not attempt to dismantle and/or modify the luminaire in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the luminaire.

It is essential that each luminaire is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

Keep the lamp clean. Do not touch the lamp glass with bare hand.

The luminaire should always be installed with a secondary safety fixing. A safety cord is supplied for this; it should be attached as shown in “installing the luminaire” section.

The lamp used in this luminaire is a OSRAM HTI 1200W W/D7/60 discharge lamp. After switching off don’t attempt to restart the luminaire until lamp has cooled, this will require approx 15 minutes. Switching the lamp on and off at short intervals will reduce the life of both the lamp and the luminaire. But occasional breaks will prolong the life of the lamp and luminaire.

Never run the luminaire without a lamp.

The lamp shall be changed if it has become damaged or thermally deformed.

Shields and lens shall be changed if they have become visibly damaged to such an extent than their effectiveness is impaired, for example by cracks or deep scratches.

There is no user serviceable parts inside the luminaire, do not open the housing and never operate the luminaire with the covers removed.

Always disconnect from the mains, when the device is not in use or before cleaning it or before attempting any maintenance work !

If you have any questions, don’t hesitate to consult your dealer or manufacturer.

CHAPTER ONE: INSTALLING THE LUMINAIRE

ONE: LUMINAIRE STRUCTURE AND INSTALLATION

WARNING: **To pass 1 SAFETY BELT through 2 HOLES for safety!**

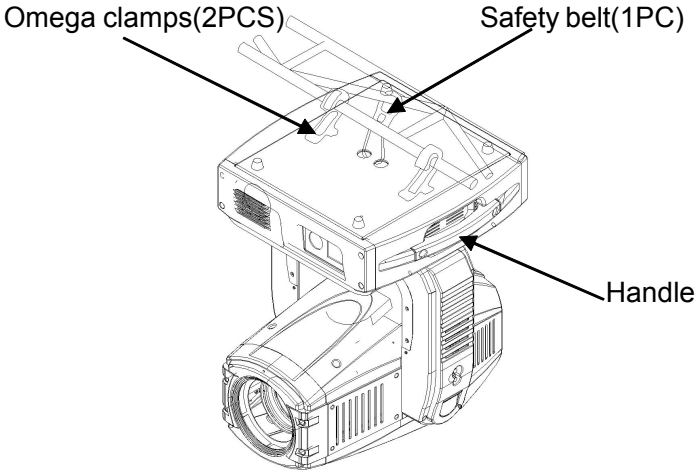

Figure 1-1

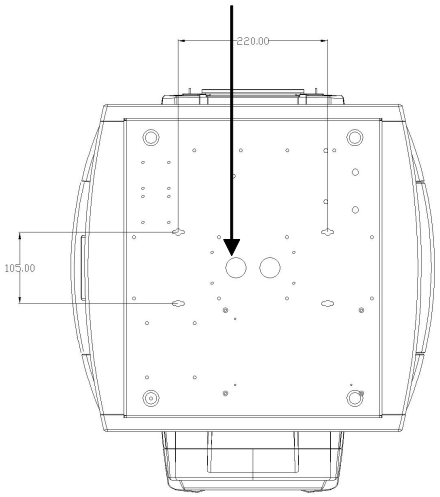

Figure 1-2

Take 2 clamps and 1 safety belt out from the package and mount 2 clamps on the underside of luminaire with 4 retainers attached to each clamp. Hang the luminaire on the structure and fasten the screws attached to each clamp. (See the **WARNING** on the underside of the base as shown above) **To pass 1 SAFETY belt through 2 HOLES for safety!**

Always ensure that the luminaire is firmly anchored to avoid vibration and slipping whilst functioning. Always ensure that the structure that you are going to mount the luminaire is secure and is strong enough to support a weight of EAGLE 3000.

WARNING:

1. Unlock the PAN and TILT before the 1st application of luminaire for safety.

2. The luminaire MUST be lifted or carried by the HANDLES instead of clamps.

TWO: INSTALLING / REPLACING THE LAMP

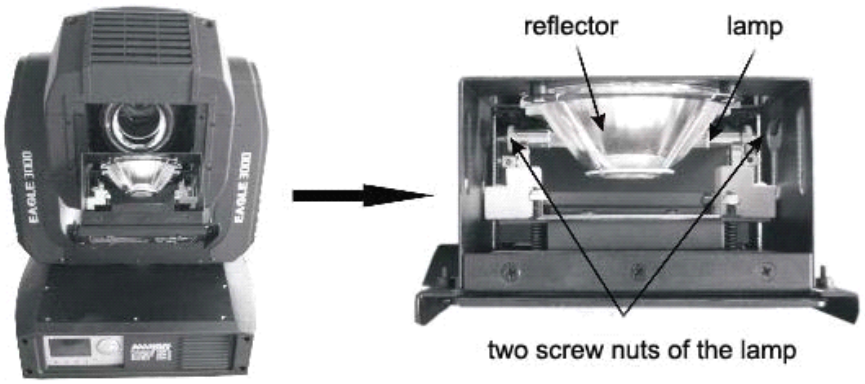

Figure 2

Please installing the lamp before using, the lamp and light are packed separately during delivery.

CAUTION: Wear cotton gloves or other covering while installing lamp. Touching lamp glass with bare fingers will leave oil and may cause the lamp to explode or reduce lamp life. If touched, use alcohol and cotton cloth to thoroughly clean glass portion of lamp.

INSTALLING / REPLACING THE LAMP：

1.Ensure power is removed from luminaire.

2.Lock the Head before installing the lamp.

3.At rear of luminaire head, loosen four screws and slide lamp box back and out.

4.Loosen 2 nuts at the both ends of lamp and take out the worn-out lamp.

5.Fit new lamp and fasten 2 screws at the both ends of lamp. **Note:** don't touch the bulb of the new lamp with bare hand so as not to influence the beam output; the PST (pumping stem tip off) on the bulb facing the rear cover with fans perpendicularly and being not in the beam's way is a must and aids cooling.

6.Close lamp box and re-tighten screws.

7.Align lamp as detailed in Chapter Four.

WARNING: The HTI series are high-pressure lamps with external igniters .Care should always be taken when handling these lamps. Always read the manufacturers "Instructions for use" enclosed with the lamp.

THREE: POWER AND DATA CABLING REQUIREMENTS

POWER

The luminaire requires standard AC power distribution from, Electronic Ballast: 100-120 VAC, 200-240 VAC, 50/60 Hz; Magnetic Ballast: 200-240 VAC. Use the plug provided to connect the mains power to the luminaire paying attention to the voltage and frequency marked on the panel of the luminaire. It is recommended that each luminaire be supplied separately so that they may be individually switched on and off.
Depending on the application, the luminaire's AC input cable may require a different connector. If required, install a new connector meeting your requirements using the following wire color code:

Table One: Power Connection

Wire	Connection
Green/Yellow	AC Ground
Blue	AC Neutral
Brown	AC Line

IMPORTANT
It is essential that each luminaire is correctly earthed and the electrical installation conforms to all relevant standards.

DATA CABLES

Connection between controller and luminaire and between one luminaire and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Connection to and from the luminaire is via cannon 3 pin (which are included with the luminaire) or 5 pin XLR plugs and sockets. The XLR's are connected as shown in the figure above.

Note: care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. The body of the plug is not connected in any way. The EAGLE-3000 accepts digital control signals in protocol DMX512.

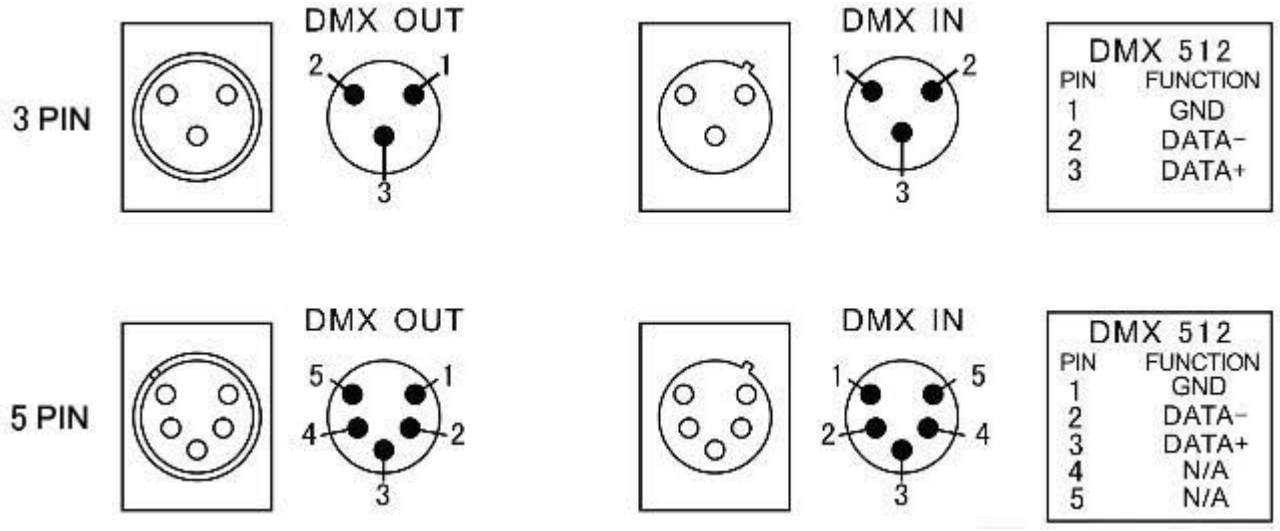

Figure 3

CONNECTTING DATA CABLE AND POWER

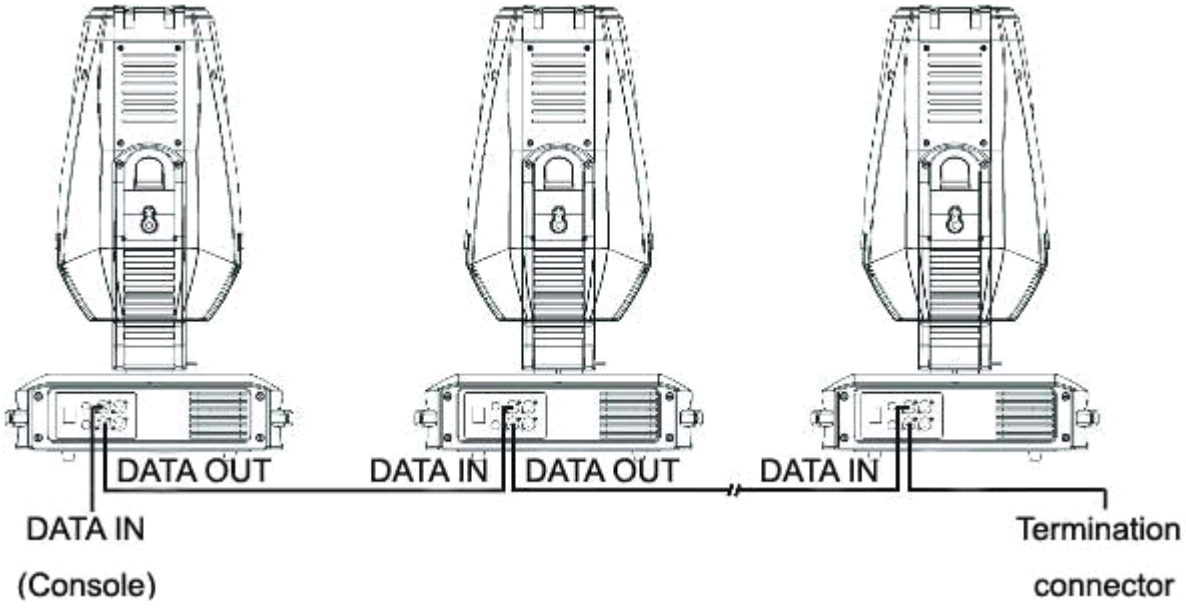

Figure 4

Each DMX cable can connect 32 pcs light at the most.

Note: This maximum range is only fit for connect in series. Maybe your system or controller only needs several pcs light in each DMX cable.

POWER AND DMX CABLE CONNECT:

1. Connect data cable from controller to first luminaire in chain at DATA IN connector.
2. If required, connect additional data cables from DATA OUT connectors to DATA IN connectors of remaining luminaires in link
3. At last luminaire in link, install male termination connector at DATA THRU connector. (luminaires and other devices on the same DMX chain may not function properly without termination.)
4. Connect AC input cable connector to power input source.
5. Dress AC input and data cables and secure them so that they will not interfere with luminaire head and yoke movement.

DMX TERMINATOR

In the Controller mode, at the last luminaire in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.
The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last luminaire in the chain. The connections are illustrated below.

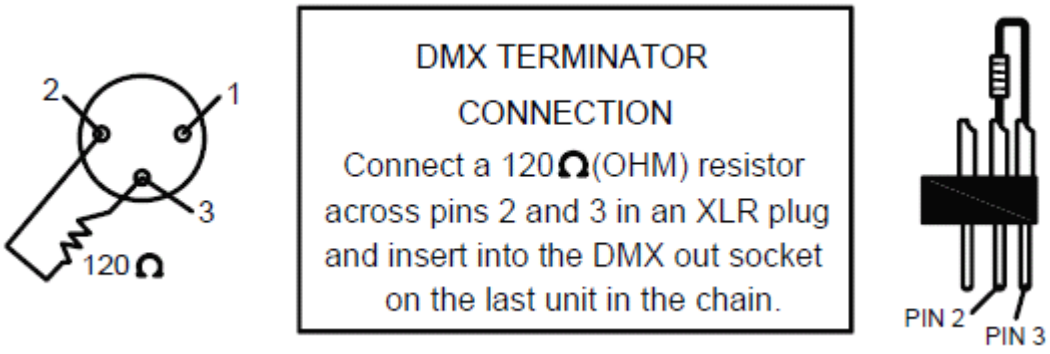
2
1
3
120Ω
DMX TERMINATOR
CONNECTION
Connect a 120Ω(OHM) resistor across pins 2 and 3 in an XLR plug and insert into the DMX out socket on the last unit in the chain.
PIN 2
PIN 3

Figure 5

SETUP OPTIONS-LUMINAIRE CONFIGURATION

Luminaire configuration can be set conveniently via press button switch and LCD display.
Turn the luminaire on and the LCD display will show DMX address you set and save last time and it can be reset and saved again as you please.

Launch the luminaire. Press button ENTER panel. Press button UP or DOWN if you want to browse through the various Setup Options. If you turn the coder knob clockwise, the function like as button UP . On the contrary, the function like as button DOWN.

Press button ENTER to save your settings or enter the next menu. There is same function if you push the coder knob. Press button UP or DOWN to shift.

Press button ESC, it will return to the upper menu one by one. If you stay for minutes defaulted will show display status automatically. (Details in Chapter Three)

PROGRAM STARTING ADDRESS

Each EAGLE 3000 must be given a DMX start address so that the correct luminaire responds to the correct control signals. This DMX start address is the channel number from which the luminaire starts to “listen” to the digital control information being sent out from the controller.

The EAGLE 3000 Strengthen has 28 DMX channels. For example standard mode has 28 channels, so set the No. 1 Luminaire’s address 001, No. 2 Luminaire’s address 029, No. 3 Luminaire’s address 057, No. 4 Luminaire’s address 085, and so on.

Launch the luminaire. Press button ENTER or coder knob to panel.

Press button ENTER to show you DMX address.

Press button UP and DOWN, you can set the address; Press button ENTER to confirm; In the same time, the setting has been enabled and saved.

Press button ESC, it will return to the upper menu one by one.

CHAPTER TWO: LUMINAIRE RUNNING

DMX PROTOCOL

These tables assume a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

Table 2-1: EAGLE-3000Strengthen DMX PROTOCOL

DMX channel		Functions	DMX value	Description
Standard	Extended			
1	1	Dimmer	0-255	dark to light（0-100%）
2	2	Pan	0-255	Pan rotate 540°
3	3	Pan Fine	0-255	Pan 16Bit
4	4	Tilt	0-255	Tilt rotate 270°
5	5	Tilt Fine	0-255	Tilt16Bit
6	6	Focus	0-255	Linear Focus
7	7	Zoom	0-255	Beam angle linear adjustable (small to big)
8	8	CTO	0-255	Color temperature linear adjustable (high to low)
9	9	Cyan	0-255	Cyan linear adjustable (light to dark)
10	10	Yellow	0-255	Yellow linear adjustable (light to dark)
11	11	Magenta	0-255	Magenta linear adjustable (light to dark)
12	12	Color Wheel	0-14	White
			15-30	White / Color 1
			31-47	Color 1
			48-61	Color 1 / Color 2
			62-76	Color 2
			77-92	Color 2 / Color 3
			93-108	Color 3
			109-123	Color 3 / Color 4
			124-139	Color 4
			140-154	Color 4 / Color 5
			155-170	Color 5
			171-185	Color 5 / Color 6
			186-200	Color 6
			201-216	Color 6 / White
			217-232	Reverse Rainbow Effect
			233-240	To stop rotating at the current position
			241-255	Forward Rainbow Effect
13	13	Gobo Wheel 1	0-7	White
			8-25	Gobo 1
			26-44	Gobo 2
			45-63	Gobo 3
			64-82	Gobo 4
			83-99	3-facet Prism

			100-116	White
			117-134	Gobo 1
			135-153	Gobo 2
			154-172	Gobo 3
			173-191	Gobo 4
			192-209	3-facet Prism
			210-216	Reserve
			217-232	Reverse Flowing Effect
			233-240	Stop
			241-255	Forward Flowing Effect
14	14	Gobo Rotation、Index 1	0-255	Gobo Rotation、Index 1
	15	Gobo Rotation、Index 1 Fine	0-255	Gobo Rotation、Index 1 Fine
15	16	Gobo Wheel 2	0-7	White
			8-25	Gobo 1
			26-45	Gobo 2
			46-63	Gobo 3
			64-82	Gobo 4
			83-99	Gobo 5
			100-116	White
			117-134	Gobo 1
			135-153	Gobo 2
			154-172	Gobo 3
			173-191	Gobo 4
			192-209	Gobo 5
			210-216	Reserve
			217-232	Reverse Flowing Effect
			233-240	Stop
			241-255	Forward Flowing Effect
16	17	Gobo Rotation、Index 2	0-255	Gobo Rotation、Index 2
	18	Gobo Rotation、Index 2 Fine	0-255	Gobo Rotation、Index 2 Fine
17	19	Animation Gobo Wheel	0-255	Animation Gobo Wheel Gradually Enter
18	20	Animation Rotation、Speed	0-255	Animation Rotation、Speed (Fast to Slow)
19	21	Animation Rotation、Speed Fine	0-255	Animation Rotation、Speed Fine
20	22	Iris	0-255	Iris from small to big linear adjustable
21	23	Shutter + Strobe	0-2	Shutter On
			3-5	Shutter Off
			6-255	Strobe Speed from slow to fast
	24	Focus Time	0-255	Focus Speed from fast to slow
	25	Color Time	0-255	Color Speed from fast to slow
	26	Zoom Time	0-255	Beam Speed from fast to slow
	27	Gobo Time	0-255	Gobo Speed from fast to slow
22	28	Control	0-60	Fan Speed
			61-80	Reserve
			81-87	Luminaire Reset
			88-99	Reserve

			100-104	Color Reset
			105-111	Reserve
			112-116	Gobo Reset
			117-125	Reserve
			126-130	Focus / Zoom / Iris Reset
			131-137	Reserve
			138-142	Dimmer / Strobe Reset
			143-164	Reserve
			165-171	Lamp Off
			172-221	Reserve
			222-230	Lamp Half power consumption
			231-248	Reserve
			249-255	Lamp On

NOTE： The use of channel 28 (standard mode: channel 22) for lamp on / off function operation, when lamp off, do not try to pushing the fader to 249-255 immediately to start the lamp or push this range to wait lamp cooling, in these two conditions, the system will not respond to commands to start lamp. The correct way to restart the lamp on channel 28 is: Turn off the lamp-->Wait lamp cooling-->To push the fader restart the lamp.

CONTROL CHANNEL FUNCTIONS

Control channel functions allow special actions such as reset, lamp on/off and partial recalibration. These must be executed with zero time transition or with timing disabled. Discrete values must be used; not manual controls such as faders or encoders (see chart below for values).

Table 2-2: Control Channel Functions

Control Channel Functions	Control Channel Value		
	% Value	DMX Value	
		For 3 Secs or Greater	After 3 Secs
Fan Speed	0-24	0-60	0
Luminaire Reset	32-33	81-87	0
Lamp Off	65-67	165-171	0
Lamp On	98-100	249-255	0
Partial Recalibration of:			0
Color	40	100-104	0
Gobos	45	112-116	0
Focus / Zoom / Iris	50	126-130	0
Dimmer / Strobe	55	138-142	0

To use control channel functions:

Step 1. Select an action to be sent.

Step 2. Set control channel value for desired action (for example, 84 for reset). Hold value for 3 seconds.

Step 3. Set control channel value to zero.

CHAPTER THREE: MANU SYSTEM

WHAT IS THE MANU SYSTEM?

The menu system is a programmable set of commands used to configure, address, operate, and test the luminaire. The menu system is controlled at the Menu Display available at the enclosure input panel.

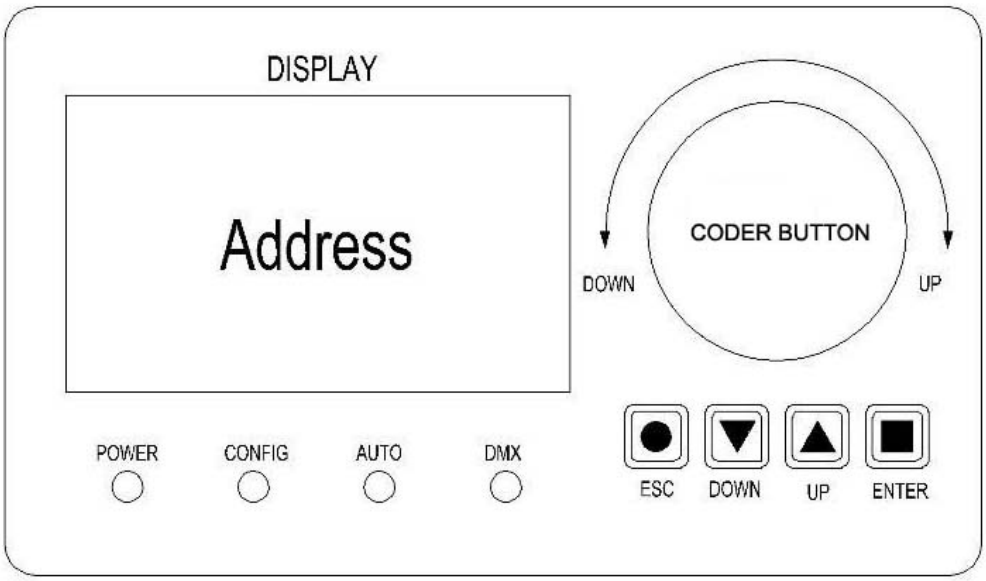

Figure 6: Menu Display Location

CONTROLS OPERATION

The menu system is controlled by four buttons and a coder button. These buttons function as follows:

[ESC] button. Displays the menu, or if at first level, the current address.

[UP] triangle. Scrolls menu options upward or increases current data value.

[DOWN] triangle. Scrolls menu options downward or decreases current data value.

[ENTER] button. Selects the current menu option or stores current data value.

[CODER] button. Scrolls menu options upward and downward, selects the current menu option or stores current data value.

To enter the menu system, first press [ESC], exit to initial interface, then press[ENTER] button into 1st level functions.

Press [UP] / [DOWN] triangle or turn [CODER] button to access the 1st level functions, once desired function appears in the display, press [ENTER] or [CODER] button. When the highest level for the function is reached, [Up] / [Down] triangle can be pressed to enter a value. Press [Enter] or [CODER] button to store the value or select an action. For example:

1st level		2nd level		3rd level
TEST	→	AUTO	→	RUN TEST

MENU SYSTEM OVERVIEW

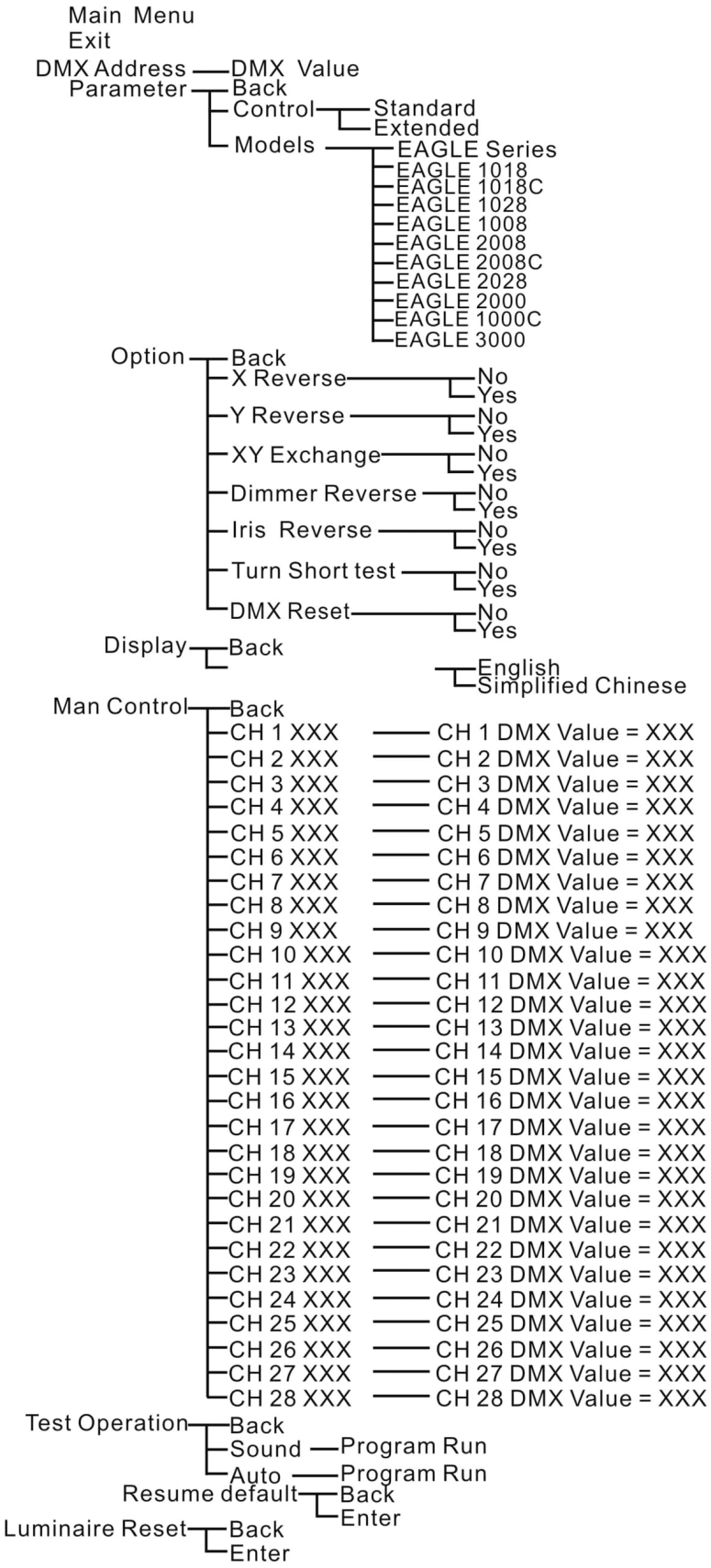

Figure 7: Menu System Overview

MENU FUNCTIONS

MENU SYSTEM FUNCTION CHART

Table 3: Menu System Function Chart

1st Level	2nd Level	3rd Level
Main Menu Exit		
DMX Address	DMX value XXX	
Parameter	Back	
	Control	Standard
		Extended
	Models	EAGLE Series
		EAGLE 1018
		EAGLE 1018C
		EAGLE 1028
		EAGLE 1008
		EAGLE 2008
		EAGLE 2008C
		EAGLE 2028
		EAGLE 2000
		EAGLE 1000C
		EAGLE 3000
Option	Back	
	X Reverse	No
		Yes
	Y Reverse	No
		Yes
	XY Exchange	No
		Yes
	Dimmer Reverse	No
		Yes
	Iris Reverse	No
		Yes
	Turn short test	No
		Yes
	DMX Reset	No
		Yes
Display	Back	

	Language Display	English
		Simplified Chinese
Manual Control	Back	
	CH1 XXX	CH1 Dmx value=XXX
	CH2 XXX	CH2 Dmx value=XXX
	CH3 XXX	CH3 Dmx value=XXX
	CH4 XXX	CH4 Dmx value=XXX
	CH5 XXX	CH5 Dmx value=XXX
	CH6 XXX	CH6 Dmx value=XXX
	CH7 XXX	CH7 Dmx value=XXX
	CH8 XXX	CH8 Dmx value=XXX
	CH9 XXX	CH9 Dmx value=XXX
	CH10 XXX	CH10 Dmx value=XXX
	CH11 XXX	CH11 Dmx value=XXX
	CH12 XXX	CH12 Dmx value=XXX
	CH13 XXX	CH13 Dmx value=XXX
	CH14 XXX	CH14 Dmx value=XXX
	CH15 XXX	CH15 Dmx value=XXX
	CH16 XXX	CH16 Dmx value=XXX
	CH17 XXX	CH17 Dmx value=XXX
	CH18 XXX	CH18 Dmx value=XXX
	CH19 XXX	CH19 Dmx value=XXX
	CH20 XXX	CH20 Dmx value=XXX
	CH21 XXX	CH21 Dmx value=XXX
	CH22 XXX	CH22 Dmx value=XXX
	CH23 XXX	CH23 Dmx value=XXX
	CH24 XXX	CH24 Dmx value=XXX
	CH25 XXX	CH25 Dmx value=XXX
	CH26 XXX	CH26 Dmx value=XXX
	CH27 XXX	CH27 Dmx value=XXX
	CH28 XXX	CH28 Dmx value=XXX
Test operation	Back	
	Sound	Program Run
	Auto	Program Run
Resume default	Back	
	Enter	
Luminaire reset	Back	
	Enter	

CHAPTER FOUR: TROUBLESHOOTING AND ROUTINE MAINTENANCE

WARNING: All maintenance procedures are to be performed with power removed from the luminaire. Never remove covers or backcap while lamp is in operation.

TROUBLESHOOTING

Table 4: Troubleshooting

PROBLEM	ACTION
The luminaire doesn't switch on	1.Check the fuse on the power socket. 2.Replace the lamp.
The lamp comes on but the luminaire doesn't respond to the controller	1.Make sure that the luminaire is correctly configurated. 2.Replace or repair the DMX cable.
The luminaire only functions intermittently	Make sure the fan is working and not dirty.
Defective projection	1.Check the lenses are not broken. 2.Remove dust or grease from the lenses.
The project image appears to have a halo	1.Make sure the lamp is installed correctly. 2.Carefully clean the optical group lenses and the luminaire components.
The beam appears dim	1.Check the optics is clean. 2.Replace with a new lamp of the specified type and rating.

ALIGN LAMP

The design of the EAGLE 3000 luminaire optical system allows for a flat or peaked field. A flat field is one where there is no detectable hot spot and a peaked field is one where the intensity of the beam is greater at the center of the beam than at the perimeter.

After a new lamp is installed, it will be necessary to align the lamp to optimize the beam. Knobs located at the luminaire's backcap will allow adjustment.

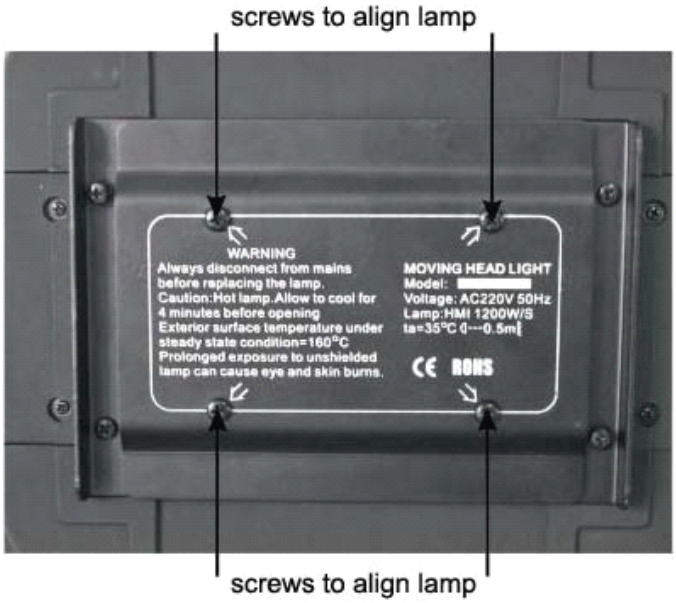
screws to align lamp
WARNING
Always disconnect from mains before replacing the lamp.
Caution:Hot lamp.Allow to cool for 4 minutes before opening
Exterior surface temperature under steady state condition=160°C
Prolonged exposure to unshielded lamp can cause eye and skin burns.
MOVING HEAD LIGHT
Model:
Voltage: AC220V 50Hz
Lamp:HMI 1200W/S
ta=35°C
CE ROHS
screws to align lamp

Figure 8

WARNING: Backcap and adjustment knobs will be HOT during lamp operation. Wear gloves to prevent burns.

To align lamp:

1、Power-up luminaire.

2、At Menu Display, set intensity to 100%, open beam size iris and focus for hard edge.

3、Position beam on a white wall at a distance of 10 to 20 feet.

4、At backcap, use cross screwdriver adjust screws, adjust beam as required

GOBO REPLACEMENT

WARNING: Remove power from luminaire before performing maintenance. Gobos may be HOT after operation. Allow to cool before replacing.

To replace a gobo:

1、Remove power from luminaire.

2、Remove appropriate head cover by loosening four screws

3、Rotate gobo wheel until required gobo position is accessible.

CAUTION: Do not push on gobo glass. Press on gobo carrier only.

CAUTION: Do not touch gobos with bare fingers. Wear cotton gloves or other covering while replacing Clean with glass cleaner and soft cloth if required.

4、Remove current gobo by carefully pressing on edges of gobo carrier with fingers, pressing gobo toward front end of luminaire (toward lens), and out of wheel.

5、Install new gobo as follows:

A. Align three tabs on gobo carrier with three notches in wheel (gobo can only be oriented in one direction).

B. Insert gobo carrier into wheel, ensuring that carrier snaps into place.

6、Close fan duct assembly and replace covers.

COLOR FILTER REPLACEMENT

WARNING: Remove power from luminaire before performing maintenance. Filters may be HOT after operation. Allow to cool before replacing.

To replace a color filter:

1、Remove power from luminaire.

2、Remove top head cover by loosening four screws

CAUTION: Do not touch filters with bare fingers. Wear cotton gloves or other covering while replacing. Clean with glass cleaner and soft cloth if required.

3、Rotate color wheel until required filter position is accessible.

4、Install new filter (orientation does not matter) ensuring that it is securely in position.

5、Replace head cover.

CHAPTER FIVE: LUMINAIRE MAINTENANCE

MAINTENANCE

If the luminaires becomes damaged or broken it should be replaced. If the lamp becomes damaged or deformed in any way it must be replaced. If the light from the lamp appears dim this would normally indicate that it is reaching the end of its life and it should be changed at once, aged lamps run to the extremity of their life might explode. If the luminaire not function, check the fuses on the power socket of the luminaire should only be replaced by fuses of the same specification. Should these be damaged call a qualified technician before replacement. The luminaire has thermal protection device that will switch off the luminaire of overheating, should either of these operate, check that the fans are not blocked, and if they are dirty clean them before switching on the luminaire. Check that the fans are operational, if not call a qualified technician.
Any maintenance work should only be carried out by qualified technicians.

LUBRICATION

To ensure the continuous rotation of the rotating gobos and linear motion of the lens for focusing, it is recommended that the bearings for the rotating gobos and the 2 shafts for the focusing lens holder be lubricated periodically, preferably every two months. Use only high quality, high-temperature resistant grease instead of any type of oil. When lubricating the bearings, a syringe with a fine needle is the easiest way to introduce the grease to the bearings around each gobo.

KEEPING THE LUMINAIRE

To ensure the reliability of the luminaireould be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens and dichroic colour filters should also be regularly cleaned to maintain an optimum light output. **Do NOT use any type of solvent on dichroic colour filters.**
Cleaning frequency depends on the environment in which the luminairetes: damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. A soft cloth and typical glass cleaning products should be used in cleaning. It is recommended to clean the external optics at least once every 20 days and clean the internal optics at least once every 30 / 60 days.
Do not use any organic solvent, e.g. alcohol, to clean the reflector mirror, dichroic colour filters or housing of the apparatus.

CHAPTER SIX: TECHNICAL SPECIFICATIONS

EAGLE 3000 SPOT STRENGTHEN LUMINAIRE

VOLTAGES

Electronic Ballast：AC 100V/120V/200V/220V/230V/240V, 50-60Hz

Magnetic Ballast：AC 200C-240V, 50-60Hz

POWRE CONSUMPTION

Electronic Ballast：1500W

Magnetic Ballast：1500W

LAMP

OSRAM HTI 1200 W/D7/60

Color temperature：6000°K

Manufacturers Rated Life：750 hours

COLOR SYSTEM

Linear CMY color mixing system, speed adjustable. 1 color wheel, 6 interchangeable colors plus white, with CTO color temperature filter, half color effect, bi-directional rainbow effect at variable speed.

GOBOS

2 rotating gobo wheels, 10 interchangeable rotating glass gobos plus white, indexable, bi-directionally rotating at variable speed.

ANIMATION GOBO WHEEL

Bi-directionally rotating at variable speed, have flowing & flame effect while working with other gobos

FOCUS

Linearly adjustable

ZOOM OPTICS

A 6:1 zoom optics system, covering a range from 10°-60°

DIMMER

0-100% linearly adjustable

STROBE/SHUTTER

Double strobe/shutter blades, 1-12 flash per second

IRIS

5-100% linearly adjustable

RANGE

Pan-540°，Tilt-270°

COLLING

Forced air cooling, fan speed adjustable

CONTROL

International DMX 512, 3 pin & 5 pin interface

CHANNEL

Standard Mode: 22; Extended Mode: 28

DISPLAY

LCD display, English/Chinese can set, luminaireamp usage time display

ENERGY SAVING DESIGN

Lamp power consumption reduced to half power at shutter colsing status

PROTECT GRADE

IP20, overheating & overvoltage protection

NET WEIGHT

Electronic Ballast：45.5Kg

Magnetic Ballast：55.5Kg

LUMINAIRE DIMENSION

L594*W535*H843MM

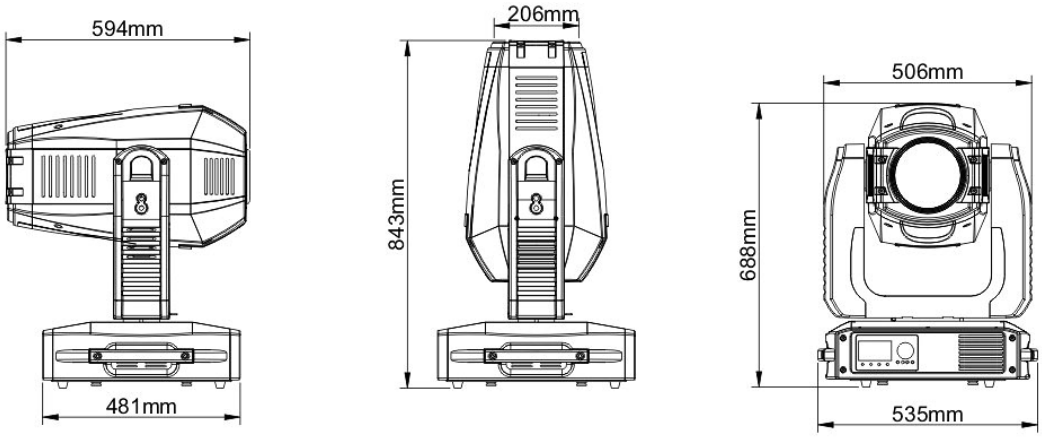

Figure 8

PHOTOMETRIC

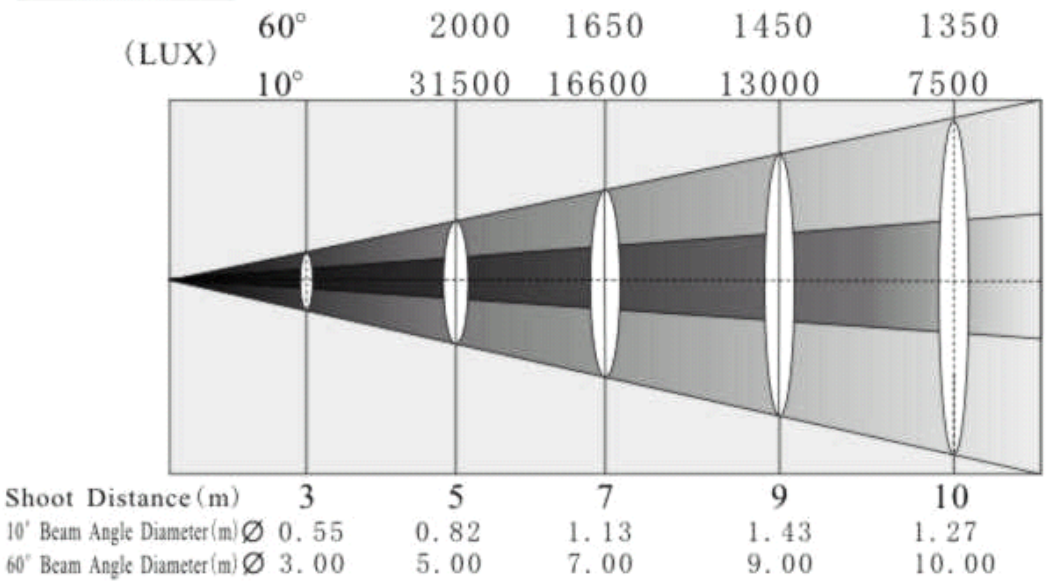

Figure 9

ELECTRICAL DIAGRAM

1 Gobo 1 motor interface
2 Gobo 1 Rotate motor interface
3 Gobo 2 motor interface
4 Gobo 2 Rotate motor interface
5 Animation Gobo motor interface
6 Iris motor interface
7 Color motor interface
8 Magenta motor interface
9 Yellow motor interface
10 Dimmer motor interface
11 Cyan motor interface
12 CTO motor interface
13 Strobe motor interface
14 Strobe motor interface
15 Focus motor interface
16 Zoom motor interface
17 Display circuit interface
18 DMX interface
19 HALL interface
20 HALL interface
21 24V power interface
22 24V fan interface
23 12V fan interface
24 TRC interface
25 MIC interface
26 X motor interface
27 X reset interface
28 X test interface
29 Y motor interface
30 Y reset interface
31 Y test interface
32 Lamp cotrol interface

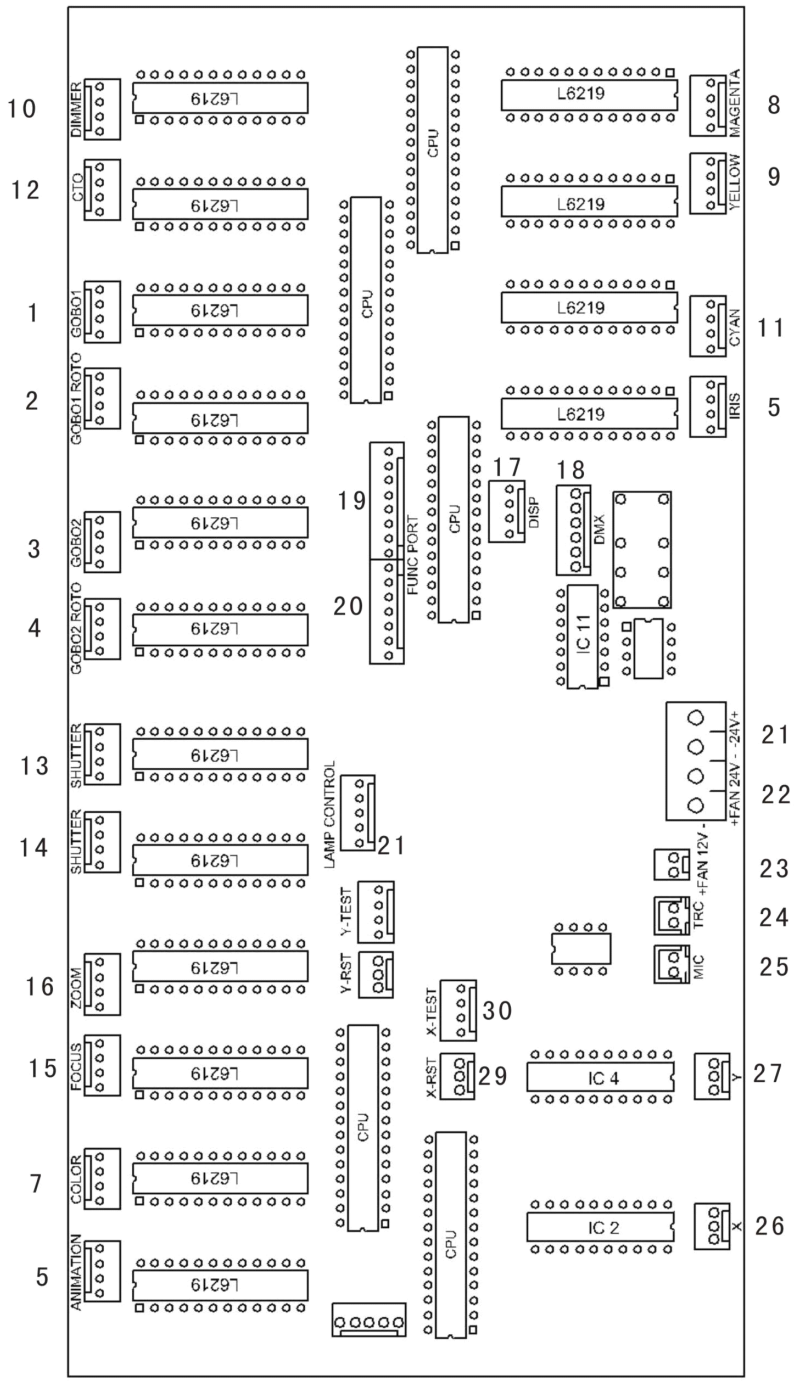

Figure 10